CIVIL TECH LABS

5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027
Ph: 080 - 4114 2867, Email: civiltechlabs@gmail.com

TEST REPORT

GRADATION TEST ON WET MIX MACADAM

Name & Address of the Customer	AEE, Yelahanka Sub Division, BBMP.
Name of Work	Asphalting and Improvements to roads at Surabhi layout 1st main and cross roads in ward no. 01 of Yelahanka Sub Division.
Name of the Agency	M/s. Technical Manager(West), KRIDL.
Date of Testing	10/04/2017
Technical Reference	MORTH Table 400-11

	Sample-4		
IS Sieve Designation (mm)	**% By Weight Passing IS Sieve**	**Actual % By Weight Passing IS Sieve**	**Remarks**
53	100	**100**	**Satisfy the Requirements**
45	95-100	**98.4**	
22.4	60-80	**68.5**	
11.2	40-60	**47.8**	
4.75	25-40	**33.5**	
2.36	15-30	**28.4**	
0.6	8-22	**17.4**	
0.075	0-8	**7.3**	

Note:

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3.Any correction invalidates this report.

4.The results are based on the test conducted on samples supplied by the customer.

Khushboo

(KHUSHBOO L.)
Quality Manager

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Asst. Executive Engineer
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CIVIL TECH LABS

Accredited by **NABL** as per ISO/ IEC 17025 : 2005

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T-2654

To,

Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP.

03rd April 2017

Dear Sir,

Sub: Testing of Materials.

As requested, tests on physical properties were carried out for the Materials supplied by you, for the work of **'Asphalting and Improvements to roads at Surabhi layout 1st main and cross roads in ward no. 01 of Yelahanka Sub Division.'**

Please find the enclosed Test Reports of the above.

Thanking You,
For Civil Tech Labs

Khushboo

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Quality Manager

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Yelahanka, Bangalore

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TEST REPORT

GRADATION TEST ON COARSE AGGREGATES 20mm ↓ Graded

Name & Address of the Customer	AEE, Yelahanka Sub Division, BBMP.
Name of Work	Asphalting and Improvements to roads at Surabhi layout 1st main and cross roads in ward no. 01 of Yelahanka Sub Division.
Name of Agency	M/s. Technical Manager(West), KRIDL.
Date of Testing	03/04/2017
Specific Gravity	**2.63**
Water Absorption	**0.34%**
Technical Reference	IS : 2386(Part I)-1963 (Reaffirmed 2011), IS : 2386 (Part III)-1963 (Reaffirmed 2011)

IS Sieve Designation (mm)	**Sieve Analysis (% Passing IS Sieve)**	**Grading Requirement as per IS:383-1970 (Reaffirmed 2011)**	**Remarks**
40	**100**	100	**Satisfies the requirement**
20	**97.5**	95-100	
10	**45.2**	25-55	
4.75	**8.4**	0-10	

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TEST REPORT

GRADATION TEST ON COARSE AGGREGATES 40mm ↓ Graded

Name & Address of the Customer	AEE, Yelahanka Sub Division, BBMP.
Name of Work	Asphalting and Improvements to roads at Surabhi layout 1st main and cross roads in ward no. 01 of Yelahanka Sub Division.
Name of Agency	M/s. Technical Manager(West), KRIDL.
Date of Testing	03/04/2017
Specific Gravity	**2.66**
Water Absorption	**0.28%**
Technical Reference	IS : 2386(Part I)–1963 (Reaffirmed 2011), IS : 2386 (Part III)–1963 (Reaffirmed 2011)

IS Sieve Designation (mm)	**Sieve Analysis (% Passing IS Sieve)**	**Grading Requirement as per IS:383-1970 (Reaffirmed 2011)**	**Remarks**
80	**100**	100	**Satisfies the requirement.**
40	**98.8**	95-100	
20	**54.2**	30-70	
10	**25.6**	10-35	
4.75	**4.1**	0-5	

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TEST REPORT

GRADATION TEST ON FINE AGGREGATES

Name & Address of the Customer	AEE, Yelahanka Sub Division, BBMP.
Name of Work	Asphalting and Improvements to roads at Surabhi layout 1st main and cross roads in ward no. 01 of Yelahanka Sub Division.
Name of Agency	M/s. Technical Manager(West), KRIDL.
Date of Testing	03/04/2017
Specific Gravity	**2.58**
Technical Reference	IS : 2386(Part I)–1963 (Reaffirmed 2011), IS : 2386 (Part III)–1963 (Reaffirmed 2011)

Sample	IS Sieve designation (mm)	Sieve Analysis (% Passing IS Sieve)	Grading Requirement as per IS:383-1970 (Reaffirmed 2011)				Grading Zone	Remarks
			ZONE-I	ZONE-II	ZONE-III	ZONE-IV		
River Sand	10	**100**	100	100	100	100	II	Satisfies the requirement
	4.75	**97.4**	90-100	90-100	90-100	95-100		
	2.36	**86.5**	60-95	75-100	85-100	95-100		
	1.18	**75.4**	30-70	55-90	75-100	90-100		
	0.6	**48.8**	15-34	35-59	60-79	80-100		
	0.3	**25.6**	5-20	8-30	12-40	15-50		
	0.15	**7.9**	0-10	0-10	0-10	0-15		

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TEST REPORT

TEST ON CEMENT

Name & Address of the Customer	AEE, Yelahanka Sub Division, BBMP.
Name of Work	Asphalting and Improvements to roads at Surabhi layout 1st main and cross roads in ward no. 01 of Yelahanka Sub Division.
Name of the Agency	M/s. Technical Manager(West), KRIDL.
Date of Testing	03/04/2017

Tests	**Test Method As Per IS & Apparatus**		**Results**		**Requirements As Per IS 8112:1989**	**Remarks**
	IS Code	**Method**	**Value**	**Unit**		
Initial Setting Time	**IS-4031 (Part-5) 1988**	VICAT	49	min	Not Less Than 30 Minutes	Satisfies Requirement
Final Setting Time	**IS-4031 (Part-5) 1988**	VICAT	486	min	Not More Than 600 Minutes	Satisfies Requirement
Soundness	**IS-4031 (Part-3) 1988**	LE-CHATELIER	4	mm	Not More Than 10 mm	Satisfies Requirement

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TEST REPORT
TESTS ON SOLID BLOCKS

Name & Address of the Customer	AEE, Yelahanka Sub Division, BBMP.
Name of Work	Asphalting and Improvements to roads at Surabhi layout 1st main and cross roads in ward no. 01 of Yelahanka Sub Division.
Name of the Agency	M/s. Technical Manager(West), KRIDL.
Date of Testing	03/04/2017
Technical Reference	IS: 2185(Part-I)-2005 (Reaffirmed 2010)
No. of samples tested	8
Grade	C (4.0)

1. COMPRESSIVE STRENGTH

Sl. No.	Nominal Dimension (cms)	Compressive strength (N/mm^2)	Minimum Compressive Strength as per IS: 2185(Part-I)-2005 (Reaffirmed 2010)	
			Individual	**Avg. of 8 samples**
1	40x20x20	4.4	**Minimum Compressive Strength of Individual Units**	**Minimum Average Compressive Strength of Units**
2		4.5		
3		4.3	For Grade C (5.0)- 4.0 N/mm^2 For Grade C (4.0)- 3.2 N/mm^2	For Grade C (5.0)- 5.0 N/mm^2 For Grade C (4.0)- 4.0 N/mm^2
4		4.4		
5		4.5		
6		4.4		
7		4.3		
8		4.4		
Average Compressive strength (N/mm^2)		**4.4**		

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2. WATER ABSORPTION

Sl. No.	Nominal Dimension (cms)	Water Absorption (% by weight)	Average (% by weight)	Requirements as per IS : 2185(Part-I)-2005 (Reaffirmed 2010)
1	40x20x20	7.25	**7.24**	When three samples are tested the average water absorption shall not be more than 10% by mass
2		7.24		
3		7.23		

3. BLOCK DENSITY

Sl. No.	Nominal Dimension (cms)	Block Density (Kg/cum)	Average (Kg/cum)	Requirements as per IS : 2185(Part-I)-2005 (Reaffirmed 2010)
1	40x20x20	1866.3	**1867.5**	The Solid Concrete blocks used as load bearing units shall have average block density not less than 1800Kg/m^3
2		1867.9		
3		1868.5		

Remarks	Satisfies the Requirements.

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TEST REPORT

TESTS ON REINFORCEMENT STEEL BAR 10mm

Name & Address of the Customer	AEE, Yelahanka Sub Division, BBMP.
Name of Work	Asphalting and Improvements to roads at Surabhi layout 1st main and cross roads in ward no. 01 of Yelahanka Sub Division.
Name of the Agency	M/s. Technical Manager(West), KRIDL.
Date of Testing	03/04/2017
Grade of Steel	Fe - 500

Sl.No.	Description	Result	IS 1786-2008 Min. Requirements	Remarks
1	Measured Diameter mm	10	10	Satisfactory
2	Wt/m Length (Kg/m)	0.618	0.617	Satisfactory
3	Bend & RebendTest	Pass	Should not Crack or Fracture	Satisfactory
4	Elongation (%)	14.2	12	Satisfactory
5	Yield Stress(N/Sq.mm)	508	500	Satisfactory
6	U T S (N/Sq.mm)	564	545	Satisfactory

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TEST REPORT

TESTS ON REINFORCEMENT STEEL BAR 12 mm

Name & Address of the Customer	AEE, Yelahanka Sub Division, BBMP.
Name of Work	Asphalting and Improvements to roads at Surabhi layout 1st main and cross roads in ward no. 01 of Yelahanka Sub Division.
Name of the Agency	M/s. Technical Manager(West), KRIDL.
Date of Testing	03/04/2017
Grade of Steel	Fe - 500.

Sl.No.	Description	Result	IS 1786-2008 Min. Requirements	Remarks
1	Measured Diameter mm	12	12	Satisfactory
2	Wt/m Length (Kg/m)	0.889	0.888	Satisfactory
3	Bend & RebendTest	Pass	Should not Crack or Fracture	Satisfactory
4	Elongation (%)	15.3	12	Satisfactory
5	Yield Stress(N/Sq.mm)	511	500	Satisfactory
6	U T S (N/Sq.mm)	568	545	Satisfactory

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Bruhat Bangalore Mahanagara Palike

BBMP ENGINEERING DEPARTMENT

Road History Data Sheet

General

Zone	Ward No.	Ward Name
YELAHANKA	1	Kempegowda Ward

Street ID	Street Name	Significant Landmark
W0465, W0522, W0437, W0518, W0461, W0463, W0459, W	NA, Shetty Lyt, 1st Main Rd, Shetty Lyt, 2nd Main Rd, 6th Crs, Shetty Lyt, 4th Main Rd	Surabhi lauout 1st main and cross road

Segment No.	Total Length (m)
1/S-W0465/S115506	306.62

Segment Details

Seg No.	Length (m)	Start Coordinates		End Coordinates		From	To
1	58.67	77.599526	13.092600	77.599521	13.093130	W0522	W0518
2	177.96	77.599271	13.092558	77.600907	13.092670	W0437	M0013
3	69.99	77.600736	13.092610	77.600821	13.091983	W0522	M0013

Work Details

History of Road / Lane / Circles

Name of the Work	Sanctioned Estimated Amount (Rs.)	Sanctioned Year
Asphalting and Improvements to Roads at Surabhi lauout 1st main and cross road in Ward no 01 of Yelahanka Sub-Division Yelahanka zone	4500000	2017

Year	Type of Work	Other Work Type
2017 - 2018	Asphalting	

Tender	Work Details	Job No. / Work Code
Not a Tender	Asphalting and Improvements to Roads at Surabhi lauout 1st main and cross road in Ward no 01 of Yelahanka Sub-Division Yelahanka zone	001-17-000035

Work Order No.	Work Order Date	Period of Extention
BBMP/EE (YNK.D)/WO/133/2017 -18	31/03/2017	90 DAYS

Defect Liability Period From	Defect Liability Period To	Multiple road involved with the same Job No/ Work Code #
30/04/2017	29/04/2018	Yes

Contractor Details

Name of Contractor	Contractor Reg No (BBMP/PWD)	Expenditure Booked \ Released (Rs)
KRIDL		0.00

Phone No.	E-Mail ID

Zone: YELAHANKA Ward No: 1 Ward Name: Kempegowda Ward Street ID: W0465,

Engineer